

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	530	((optic\$4 adj3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or trap\$5 or rotat\$4 or cag\$3 or bottl\$3)) with ((diffract\$ or hologra\$) near3 (grating\$2 or element\$2)))	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/01/22 10:16
L2	76	1 and ((array\$4 or set\$2 or group\$3) near4 (particl\$2 or spher\$2 or ball\$2 or bead\$3 or molecu\$2 or atom\$2))	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/01/22 10:15
L3	55	1 and ((plural\$3 or multipl\$2 or array\$3 or set\$2 or group\$3) with (particl\$2 or spher\$2 or ball\$2 or bead\$3 or molecu\$2 or atom\$2) with (move\$3 or mova\$3 or movi\$3 or translat\$ or slid\$4 or manipul\$2))	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/01/22 10:15
L4	87	1 and ((plural\$3 or multipl\$2 or array\$3 or set\$2 or group\$3) near3 (particl\$2 or spher\$2 or ball\$2 or bead\$3 or molecu\$2 or atom\$2))	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/01/22 10:16
L5	90	((((optic\$4 adj3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or trap\$5 or rotat\$4 or cag\$3 or bottl\$3)) with ((diffract\$ or hologra\$) near3 (grating\$2 or element\$2))))).clm.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/01/22 12:29
L6	2666	(359/900).CCL5.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/22 12:29
L7	68	6 and (optic\$4 near3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or trap\$5 or rotat\$4 or cag\$3 or bottl\$3)) and (diffract\$ or hologra\$)	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/01/22 13:17
L8	53	6 and (optic\$4 near3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or rotat\$4 or cag\$3 or bottl\$3)) and (diffract\$ or hologra\$) and (move\$3 or mova\$3 or movi\$3 or translat\$ or slid\$4)	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/01/22 13:21
S1	1351	(liquid near3 crystal\$) and (diffract\$ near3 optic\$4 near3 element)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/08 11:36

## EAST Search History

S2	6	((liquid near3 crystal\$) with hologra\$ with time) and (diffract\$ near3 optic\$4 near3 element)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/08 11:38
S3	1	((liquid near3 crystal\$) with hologra\$ with modulat\$) and (diffract\$ near3 optic\$4 near3 element) and (time with address\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/08 11:40
S4	8	((liquid near3 crystal\$) with hologra\$) and (diffract\$ near3 optic\$4 near3 element) and (time with address\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/08 11:41
S5	6	((liquid near3 crystal\$) with phase with shift\$3 with array) and (diffract\$ near3 optic\$4 near3 element) and (time with address\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/08 11:43
S6	10	(slm or (spatial with light with modulat\$)) and (hologra\$ with (diffract\$ near3 optic\$4 near3 element)) and (time with address\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/08 11:52
S7	129	(scan\$4 with confocal\$ with microscop\$) and ((mirror or reflect\$) with conjugate)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/08 11:53
S8	47	(scan\$4 with confocal\$ with microscop\$) and (scan\$4 with (mirror or reflect\$) with conjugate)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/08 11:53
S9	22	(scan\$4 with confocal\$ with microscop\$) and (scan\$4 with (mirror or reflect\$) with conjugate with objective)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/08 11:54
S10	2	("6055106").PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/08 11:36
S11	2	("4893886").PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2002/06/25 15:12

## EAST Search History

S12	687	(359/566).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2002/06/26 12:42
S13	117	optical adj gradient	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/25 17:21
S14	111	optical adj tweezer	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/25 17:21
S15	36378	hologra\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/25 17:21
S16	117941	diffract\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/25 17:21
S17	251	optical adj trap\$5	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/25 18:15
S18	74	(optical adj trap\$5) and (hologra\$ or diffract\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/25 18:16
S19	24	(optical adj gradient) and (hologra\$ or diffract\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/25 18:19
S20	33	(optical adj tweezer) and (hologra\$ or diffract\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/25 18:20
S21	17	optical adj levitat\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/25 18:34

## EAST Search History

S22	452	optical adj (levitat\$ or gradient or tweeze\$ or trap\$5)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/04 08:51
S23	140800	hologra\$ or diffract\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/25 18:37
S24	112	(optical adj (levitat\$ or gradient or tweeze\$ or trap\$5)) and (hologra\$ or diffract\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/25 18:37
S25	0	"6055106".URPN.	USPAT	OR	ON	2002/06/25 18:38
S26	25	("3710279"   "3793541"   "3808432"   "3808550"   "4127329"   "4627689"   "4827125"   "4893886"   "5029791"   "5079169"   "5113286"   "5198369"   "5245466"   "5327515"   "5343038"   "5355252"   "5364744"   "5374556"   "5445011"   "5452123"   "5473471"   "5512745"   "5629802"   "5689109"   "5776674").PN.	USPAT	OR	ON	2002/06/25 18:38
S27	848	laser adj scan\$ adj microscop\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/26 07:59
S28	848	laser adj scan\$ adj microscop\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/26 08:05
S29	35	laser adj tweezer	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/26 08:42
S30	3	(laser adj scan\$ adj microscop\$) and (optical adj trap)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/26 08:50
S31	10098	laser and scan\$ and optical and microscope	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/26 08:50
S32	34	(laser and scan\$ and optical and microscope) and (optical adj trap)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/26 08:50

## EAST Search History

S33	2443	(laser and scan\$ and optical and microscope) and (diffract\$ and element)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2002/06/26 08:51
S34	25	("3710279"   "3793541"   "3808432"   "3808550"   "4127329"   "4627689"   "4827125"   "4893886"   "5029791"   "5079169"   "5113286"   "5198369"   "5245466"   "5327515"   "5343038"   "5355252"   "5364744"   "5374556"   "5445011"   "5452123"   "5473471"   "5512745"   "5629802"   "5689109"   "5776674").PN.	USPAT	OR	ON	2002/06/26 09:05
S35	0	"6055106".URPN.	USPAT	OR	ON	2002/06/26 09:04
S36	17	((("3710279"   "3793541"   "3808432"   "3808550"   "4127329"   "4627689"   "4827125"   "4893886"   "5029791"   "5079169"   "5113286"   "5198369"   "5245466"   "5327515"   "5343038"   "5355252"   "5364744"   "5374556"   "5445011"   "5452123"   "5473471"   "5512745"   "5629802"   "5689109"   "5776674").PN.) and (hologra\$ or diffract\$)	USPAT	OR	ON	2002/06/26 11:09
S37	0	hologra\$ adj optical adj tweeze\$	USPAT	OR	ON	2002/06/26 11:09
S38	257	(359/9).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2002/06/26 12:42
S39	811	(359/15).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2002/06/26 12:43
S40	545	(349/201).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2002/06/26 12:43
S41	56	(349/202).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2002/06/26 12:43
S42	284	(359/9).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:18
S43	1015	(359/15).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:02

## EAST Search History

S44	103	(359/16).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:02
S45	272	(359/19).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:02
S46	99	(359/20).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:02
S47	155	(359/27).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:03
S48	319	(359/558).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:03
S49	873	(359/566).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:03
S50	645	(359/569).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:03
S51	272	(359/571).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:03
S52	537	(250/251).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:04

## EAST Search History

S53	186	(359/434).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:04
S54	587	(349/201).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:04
S55	69	(349/202).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:04
S56	170	(359/573).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:04
S57	3	((("6624940") or ("6055106"))).PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/03 17:04
S58	1	"6624940".URPN.	USPAT	OR	ON	2004/06/03 17:24
S59	4683	optic\$4 near3 (levitat\$ or gradient or tweeze\$ or trap\$5)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/04 08:53
S60	1133	(optic\$4 near3 (levitat\$ or gradient or tweeze\$ or trap\$5)) and (diffract\$ or hologra\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/04 08:53
S61	2647	optic\$4 adj3 (levitat\$ or gradient or tweeze\$ or trap\$5)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/04 13:54
S62	750	(optic\$4 adj3 (levitat\$ or gradient or tweeze\$ or trap\$5)) and (diffract\$ or hologra\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/04 08:53

## EAST Search History

S63	130	(optic\$4 adj3 (levitat\$ or gradient or tweeze\$ or trap\$5)) and ((diffract\$ or hologra\$) near3 element) and laser and scan\$4	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/04 13:55
S64	2	("6,416,190").PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/06/04 09:34
S65	6	("5198369"   "5245466"   "5512745"   "5776674"   "6055106"   "6139831").PN.	USPAT	OR	ON	2004/06/04 09:51
S66	11	("5512745"   "5574597"   "5689109"   "5798784"   "5922224"   "5935507"   "5939716"   "5952651"   "5953166"   "6076732"   "6416190"   "2002/0181113").PN.	USPAT	OR	ON	2004/06/04 11:20
S67	212	(optic\$4 adj3 (levitat\$ or gradient or tweeze\$ or trap\$5)) and (liquid near3 crystal\$) and laser and scan\$4	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/04 13:58
S68	1080	(optic\$4 or laser) adj (levitat\$ or gradient or tweeze\$ or trap\$5)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/11/16 10:01
S69	72	((optic\$4 or laser) adj (levitat\$ or gradient or tweeze\$ or trap\$5)) and ((diffract\$ or hologra\$) near3 element) and laser and scan\$4	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/04 13:55
S70	137	((optic\$4 or laser) adj (levitat\$ or gradient or tweeze\$ or trap\$5)) and (liquid near3 crystal\$) and laser and scan\$4	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/04 14:29
S71	123	((optic\$4 or laser) adj (levitat\$ or gradient or tweeze\$ or trap\$5)) and (telescop\$ or relay)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/06/04 14:30
S73	2	("5212382").PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 18:20
S74	2	("5512745").PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 18:26



## EAST Search History

S75	3	((("6055106") or ("6624940"))).PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 18:32
S76	2	("5935507").PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 18:32
S77	63	((("5452123") or ("5445011") or ("5374556") or ("5364744") or ("5355252") or ("5343038") or ("5245466") or ("5079169") or ("5029791") or ("4827125") or ("4627689") or ("3808432") or ("3793541") or ("3710279") or ("5327515") or ("5113286") or ("5473471") or ("5629802") or ("4127329") or ("5198369") or ("5776674") or ("5935507") or ("6076732") or ("5574597") or ("5798784") or ("5953166") or ("5939716") or ("5952651") or ("5689109") or ("5512745"))).PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 18:52
S78	320	(359/9).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:14
S79	1106	(359/15).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:14
S80	598	(349/201).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:14
S81	73	(349/202).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:14
S82	320	(359/9).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:14
S83	1106	(359/15).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:14

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S84	111	(359/16).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:14
S85	281	(359/19).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:14
S86	108	(359/20).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:14
S87	171	(359/27).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:14
S88	360	(359/558).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:15
S89	989	(359/566).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:15
S90	724	(359/569).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:15
S91	301	(359/571).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:15
S92	632	(250/251).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:15

## EAST Search History

S93	209	(359/434).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:15
S94	598	(349/201).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:15
S95	73	(349/202).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:15
S96	198	(359/573).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/08 19:15
S97	4	((("5327515") or ("5629802"))).PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/03/09 11:59
S98	333	(359/9).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:42
S99	74	(349/202).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:42
S100	117	(359/16).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:42
S101	613	(349/201).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:42

## EAST Search History

S102	333	(359/9).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:42
S103	110	(359/20).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:42
S104	286	(359/19).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:43
S105	178	(359/27).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:43
S106	1179	(359/15).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:43
S107	395	(359/558).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:43
S108	317	(359/571).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:43
S109	74	(349/202).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:43
S110	212	(359/434).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:43

## EAST Search History

S111	216	(359/573).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:43
S112	1179	(359/15).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:43
S113	774	(359/569).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:43
S114	655	(250/251).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:43
S115	613	(349/201).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:43
S116	1061	(359/566).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/11/15 19:43
S117	144	((optic\$4 or laser) adj (levitat\$ or gradient or tweeze\$ or trap\$5 or vort\$4)) same diffract\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/11/16 10:02
S118	313	((optic\$4 or laser) near3 (levitat\$ or gradient or tweeze\$ or trap\$5 or vort\$4)) same (diffract\$ with (optic\$4 or element or grating))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/11/16 10:15
S119	88	((((optic\$4 or laser) near3 (bottle or rotator\$)) or ((light or laser) near3 cag\$4)) same (diffract\$ with (optic\$4 or element or grating))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/11/16 11:30

## EAST Search History

S120	345	(359/9).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:14
S121	78	(349/202).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:14
S122	124	(359/16).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:14
S123	345	(359/9).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:14
S124	620	(349/201).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:14
S125	113	(359/20).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:14
S126	293	(359/19).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:14
S127	180	(359/27).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:14
S128	421	(359/558).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:14

## EAST Search History

S129	78	(349/202).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:15
S130	326	(359/571).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:15
S131	217	(359/434).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:15
S132	241	(359/573).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:15
S133	1256	(359/15).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:15
S134	828	(359/569).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:15
S135	677	(250/251).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:15
S136	620	(349/201).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:15
S137	1256	(359/15).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:15

## EAST Search History

S138	1110	(359/566).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/07/10 10:15
S139	5822	S120 or S121 or S122 or S123 or S124 or S125 or S126 or S127 or S128 or S129 or S130 or S131 or S132 or S133 or S134 or S135 or S136 or S137 or S138	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/07/10 12:36
S140	434	S139 and (optic\$4 near3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or trap\$5 or rotat\$4 or cag\$3 or bottl\$3)) and (diffract\$ or hologra\$)	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/07/10 13:28
S141	328	S139 and (optic\$4 near3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or rotat\$4 or cag\$3 or bottl\$3)) and (diffract\$ or hologra\$) and (move\$3 or mova\$3 or movi\$3 or translat\$ or slid\$4)	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/07/10 12:40
S142	5591	(optic\$4 adj3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or trap\$5 or rotat\$4 or cag\$3 or bottl\$3)) and (diffract\$ or hologra\$) and (laser\$2 or coheren\$)	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/07/10 13:31
S143	730	(optic\$4 adj3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or trap\$5 or rotat\$4 or cag\$3 or bottl\$3)) and (diffract\$ or hologra\$) and (laser\$2 or coheren\$) and ((particl\$2 or spher\$2 or ball\$2 or bead\$3 or molecu\$2 or atom\$2) with (move\$3 or mova\$3 or movi\$3 or translat\$ or slid\$4 or manipul\$))	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/07/10 13:35
S144	444	(optic\$4 adj3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or trap\$5 or rotat\$4 or cag\$3 or bottl\$3)) and (diffract\$ or hologra\$) and ((laser\$2 or coheren\$) with focus\$) and ((particl\$2 or spher\$2 or ball\$2 or bead\$3 or molecu\$2 or atom\$2) with (move\$3 or mova\$3 or movi\$3 or translat\$ or slid\$4 or manipul\$))	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/07/10 13:36
S145	6	("3710279"   "3808550"   "4092535"   "4893886"   "5206504"   "5212382").PN.	US-P6PUB; USPAT; USOCR	OR	ON	2006/07/10 14:40
S146	362	(359/9).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:04



## EAST Search History

S147	82	(349/202).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:05
S148	128	(359/16).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:05
S149	362	(359/9).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:05
S150	624	(349/201).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:05
S151	116	(359/20).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:05
S152	299	(359/19).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:06
S153	181	(359/27).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:06
S154	436	(359/558).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:06
S155	82	(349/202).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:06

## EAST Search History

S156	333	(359/571).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:06
S157	225	(359/434).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:06
S158	253	(359/573).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:07
S159	1325	(359/15).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:07
S160	879	(359/569).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:07
S161	699	(250/251).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:07
S162	624	(349/201).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:07
S163	1325	(359/15).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:07
S164	1161	(359/566).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2007/01/19 17:07

## EAST Search History

S165	6041	S146 or S147 or S148 or S149 or S150 or S151 or S152 or S153 or S154 or S155 or S156 or S157 or S158 or S159 or S160 or S161 or S162 or S163 or S164	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/01/19 17:08
S166	462	S165 and (optic\$4 near3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or rotat\$4 or cag\$3 or bottl\$3)) and (diffract\$ or hologra\$)	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/01/22 13:16
S167	348	S165 and (optic\$4 near3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or rotat\$4 or cag\$3 or bottl\$3)) and (diffract\$ or hologra\$) and (move\$3 or mova\$3 or movi\$3 or translat\$ or slid\$4)	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/01/22 13:16
S168	502	(optic\$4 adj3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or trap\$5 or rotat\$4 or cag\$3 or bottl\$3)) and (diffract\$ or hologra\$) and ((laser\$2 or coheren\$) with focus\$) and ((particl\$2 or spher\$2 or ball\$2 or bead\$3 or molecu\$2 or atom\$2) with (move\$3 or mova\$3 or movi\$3 or translat\$ or slid\$4 or manipul\$))	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/01/19 19:50
S169	292	(optic\$4 adj3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or trap\$5 or rotat\$4 or cag\$3 or bottl\$3)) and ((diffract\$ or hologra\$) near5 (grating\$2 or element\$2)) and ((particl\$2 or spher\$2 or ball\$2 or bead\$3 or molecu\$2 or atom\$2) near4 (move\$3 or mova\$3 or movi\$3 or translat\$ or slid\$4 or manipul\$))	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/01/19 20:11
S170	839	((optic\$4 adj3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or trap\$5 or rotat\$4 or cag\$3 or bottl\$3)) same ((diffract\$ or hologra\$) near5 (grating\$2 or element\$2)))	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/01/19 20:29
S171	252	((optic\$4 adj3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or trap\$5 or rotat\$4 or cag\$3 or bottl\$3)) same ((diffract\$ or hologra\$) near5 (grating\$2 or element\$2)) same (plural\$3 or multipl\$2 or array\$3))	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/01/19 20:13
S172	25	("3710279"   "3793541"   "3808432"   "3808550"   "4127329"   "4627689"   "4827125"   "4893886"   "5029791"   "5079169"   "5113286"   "5198369"   "5245466"   "5327515"   "5343038"   "5355252"   "5364744"   "5374556"   "5445011"   "5452123"   "5473471"   "5512745"   "5629802"   "5689109"   "5776674").PN.	US-P6PUB; USPAT; USOCR	OR	ON	2007/01/19 20:24
S173	6	("3710279"   "3808550"   "4092535"   "4893886"   "5206504"   "5212382").PN.	US-P6PUB; USPAT; USOCR	OR	ON	2007/01/19 20:26
S174	121	((optic\$4 adj3 (levitat\$ or gradien\$2 or tweeze\$ or trap\$5 or vort\$4 or trap\$5 or rotat\$4 or cag\$3 or bottl\$3)) same ((diffract\$ or hologra\$) near5 (grating\$2 or element\$2))))).clm.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/01/22 09:52